

~~the load being~~ connected to a first electrode of the photodiode through ~~a signal contact~~ and connected to a common bus, ~~at the other side, characterized in that~~ with the radiation detector additionally comprises including a transistor and an interrogation pulse generator, with ~~the a~~ a second photodiode electrode of the photodiode coupled ~~with the~~ to a first second electrode of the transistor, ~~the~~ with a control electrode of ~~which is the transistor~~ coupled ~~with the~~ to an output of the interrogation pulse generator; and ~~the~~ with a third transistor electrode ~~is coupled with~~ to the common bus.

2. (currently amended): ~~A~~ The radiation detector according to claim 1, ~~characterized in that~~ further including N groups of elements, each group of elements including a ~~consisting of the series-connected~~ photodiode and a transistor, with the photodiode connected to the transistor, are placed with the photodiode and transistor connected in parallel with the load, and with the interrogation pulse generator ~~comprises~~ having N outputs, each ~~of the output of the N outputs being~~ coupled ~~with~~ to the ~~transistor~~ control electrode of the transistor from ~~the a~~ a respective group of elements, where N is an integer greater than one. ~~>1.~~

3. (currently amended): ~~A~~ The radiation detector according to claim 2, ~~characterized in that~~ with said radiation

detector ~~comprises~~ having L loads, with N_i groups of elements being placed in parallel with each i-th load, ~~and the~~ with said radiation detector having a total number of groups of elements contained in said detector equals the equal to a number of N outputs of the interrogation pulse generator, where L is an integer > 1 , N_i is a positive integer, and i is an index of the positive integer.

4. (currently amended): ~~A~~ The radiation detector according to ~~claims~~ claim 1 ~~and/ or 2 or 3,~~ with each group of elements further including a capacitor characterized in that capacitors are connected in parallel with photodiodes each photodiode in each group of elements, respectively.

5. (currently amended): A radiation detector comprising a group of elements, with the group of elements including a radiation-sensitive element and a load, with said radiation-sensitive element being connected to a supply voltage bus at one side, and the load being connected to a common bus, at one side, ~~characterized in that~~ with said radiation detector additionally comprises including a transistor, a capacitor and an interrogation pulse generator, with the radiation-sensitive element being connected to the a first electrode of the transistor at the other side and to the a first plate of the capacitor, the with a second plate of which is the capacitor

connected to ~~a signal contact of the load, and the~~ an output of the interrogation pulse generator is coupled ~~with the~~ to a control electrode of the transistor, ~~with the~~ a third electrode of ~~which is the transistor~~ connected to the common bus.

6. (currently amended): A The radiation detector according to claim 5, ~~characterized in that~~ further including N groups of elements, with each consisting of group of elements of the N groups of elements comprising a ~~the series-connected~~ radiation-sensitive element ~~and~~ connected to a transistor with the radiation sensitive element and the transistor connected between the supply voltage and the common bus, with a capacitor connected between the respective transistor and the common point of which is coupled to the load signal output via the capacitor, ~~are connected between the supply voltage bus and common bus,~~ and with the interrogation pulse generator having ~~comprises~~ N outputs, ~~each being~~ with each of the N outputs connected to ~~the transistor~~ a control electrode of the respective transistor in from the respective group of elements, where N is an integer greater than one. ~~>1.~~

7. (currently amended): A The radiation detector according to claim 6, ~~characterized in that~~ with said radiation detector ~~comprises~~ having L loads, with a signal contact of each i-th load ~~being~~ connected to N_i groups of elements, ~~and the~~ with

a total number of groups of elements of said radiation detector comprises being equal to the number of N outputs of the interrogation pulse generator, where L is an integer greater than one, >1, with N_i is a positive integer, with i an index to each load of the L loads.

8. (currently amended): A The radiation detector according to claims 5 ~~and/~~ or 6 or 7, ~~characterized in that the~~ with a resistor ~~resistors are connected between the each~~ radiation sensitive element ~~elements and a common point~~ points of each transistor and capacitor in each group of elements, respectively. ~~the transistors and capacitors.~~

9. (currently amended): A radiation detector comprising a radiation-sensitive element and a load, with the radiation- sensitive element ~~being~~ connected to ~~the~~ a supply voltage bus ~~at one side~~ and the load ~~being~~ connected to ~~the~~ a common bus ~~at one side, characterized in that~~ with said radiation detector additionally comprises including a transistor and an interrogation pulse generator, with the radiation-sensitive element ~~being~~ connected to ~~the~~ a first electrode of the transistor ~~at the other side~~ and ~~the~~ an output of the interrogation pulse generator ~~being~~ connected to ~~the~~ a control electrode of the transistor, ~~the~~ with a third electrode of the transistor ~~which is coupled with~~ to the load ~~signal contact.~~